
Section 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : NEXO MB50
Substance name : Epoxidized Esters of Soybean Oil
CAS-No. : 68082-35-9;
2097734-14-8;
8013-07-8

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Plasticizer for polyvinyl chloride resins; plasticizer for other polymers
Uses advised against : At this moment we have not identified any uses advised against

1.3 Details of the supplier of the safety data sheet**Supplier:**

Company : Nexoleum Bioderivados S. A.
Av. Prof. Joaquim Barreto, 2221
Cotia, SP – BRASIL – CEP 06700-170
Telephone : +55 11 4148 8896
Fax : +55 11 4148 8941
E-mail address : contato@nexoleum.com

Importer / Only representative:

Company : Nexoleum Europe B. V.
[in process of being established]

1.4 Emergency telephone number

Emergency telephone number : +55 11 4148 8896

Section 2: Hazards identification**2.1 Classification of the substance or mixture**

The product is not classified as dangerous according to Regulation EC No. 1272/2008.

The substance is not classified as dangerous according to Directive 67/548/EEC.

Human health:

May cause slight irritation to skin and eyes. May present specific organ toxicity

Physical and chemical hazards:

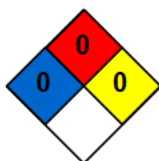
Not classified

Potential environmental effects:

Does not present hazard to the environment

Product hazard classification: Flammability: 0; Health: 0; Reactivity: 0

Symbol:



2.2 Label elements

The product is not labeled as dangerous according to Regulation (EC) no. 1272/2008.

Handle in accordance with good industrial hygiene and safety practice.

2.3 Other hazards

The product does not need to be labeled in accordance with EC directives or respective national laws.

Health injuries are not known or expected under normal use.

Section 3: Composition/Information on ingredients

3.1 Substances

Substance name	:	[REDACTED]	Epoxidized soybean oil;	Glycerides, soya mono- and di-, epoxidized, acetates
CAS No:	:	[REDACTED]	8013-07-9	2097734-14-8
Composition	:	[REDACTED]	[REDACTED]	[REDACTED]
Synonyms:	:	[REDACTED]	ESO	Acetylated mono- and di-glycerides of epoxidized soybean oil
Stabilizers	:	N/A	N/A	N/A
Hazard impurities	:	N/A	N/A	N/A

Product complies with RoHS (Restriction of Certain Hazardous Substances)

Section 4: First aid measures

4.1 Description of first aid measures

General advice	:	When symptoms persist or in all cases of doubt seek medical advice. Take off all contaminated clothing immediately. Wash contaminated clothing before re-use
If inhaled	:	Move out of dangerous area. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
In case of skin contact	:	Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	:	Rinse immediately with plenty of water. If symptoms persist, call a

Physician.

If swallowed : Do NOT induce vomiting. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available

Effects : Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. May have irritant effects to the eyes

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically. If possible, contact a physician and a toxicology center

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray, CO2, Foam, Dry powder

Unsuitable extinguishing media : High volume water

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Fire may cause evolution of carbon oxides. Other toxic products cannot be excluded under specific fire conditions

5.3 Advice for firefighters

Special protective equipment for firefighters : Choose protective equipment according to dimension of fire.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid contact with skin, eyes and clothing. Impervious gloves should be worn while handling product. Ensure adequate ventilation, especially in confined areas. Avoid inhalation. Use recommended personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Contain potential leakages and spills with barriers. Prevent product from entering drains, water courses or the soil.

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : For large spillages, cleanup promptly by sweeping or vacuum. For small spillages, use absorbent materials. Keep in adequate containers for disposal.

6.4 Reference to other sections

See sections 8 and 13

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Use forklifts or proper equipment to handle heavy containers. Use Indicated personal protective equipment: safety goggles; impervious (nitrile or latex) gloves; cotton clothing.

Hygiene measures : Avoid contact with skin and eyes. Do not breathe vapors or spray mists. Take off all contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

Requirement for storage areas and containers : Suitable materials for containers: carbon steel, stainless steel, aluminum, polypropylene, polyethylene, Teflon. Unsuitable materials for containers: natural rubber, butyl rubber, PVC (polyvinyl chloride)

Advice on protection against fire and explosion : The product is flammable but not readily ignited. Normal measures for preventive fire protection

Further information on storage conditions : Keep containers in a well ventilated place

Storage temperature : 5 – 40 °C

7.3 Specific end uses(s)

None known

Section 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure controls

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory Equipment

Hand protection : Use impervious (nitrile rubber or latex) gloves

Eye protection : Use protective goggles

Skin and body protection : Long sleeve cotton shirts and pants, rubber or plastic boots

Environmental exposure controls

General advice : Prevent spreading over a wide area (physical containment and barriers. Product should not be allowed to enter drains, water courses or the soil

Section 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	:	Liquid (20 °C)
Appearance	:	Transparent
Color	:	Clear – light yellow
Odor	:	mild, vegetable oils
pH	:	Aprox. 7
Specific Gravity	:	0.984
Vapor pressure	:	negligible
Vapor density	:	No data available
Boiling point/boiling range	:	Decomposes before boiling.
Freezing point	:	<10 °C
Solubility in water	:	not soluble
Flash Point	:	>180 °C
Viscosity (cSt, 25 °C)	:	100
% Oxirane	:	6.0
Iodine number	:	3.0
Acidity (mg KOH/g)	:	2.0

9.2 Other information

No further information available.

Section 10: Stability and reactivity**10.1 Reactivity**

No information available

10.2 Chemical stability

This material is chemically stable under normal and anticipated storage, handling and processing conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Heat, flames, and sparks

10.5 Incompatible materials

A low energy release may result on contact with: strong acids, strong bases, Mineral acids and oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition giving flammable and toxic products: Carbon dioxide (CO₂), carbon monoxide, hazardous organic compounds.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	:	No data available
Local effects	:	May cause irritation to skin and eyes
Sensitization	:	No data available
Specific organ toxicity	:	May present liver and kidneys toxicity

Section 12: Ecological information

12.1 Environmental toxicity

Adverse ecological impact is not known or expected under normal use.

12.2 Persistence and biodegradability

Readily biodegradable

12.3 Bio-accumulative potential

Does not accumulate

12.4 Other adverse effects

No data available

Section 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
Contaminated packaging	:	Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Section 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packaging group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for use

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable

Section 15: Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****United States – Federal Regulations**SARA Title III – Section 302 Extremely Hazardous Chemicals:

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

SARA Title III - Section 311/312 Hazard Categories:

No SARA Hazards

SARA Title III – Section 313 Toxic Chemicals:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):

The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

OSHA Regulated Carcinogens (NTP, IARC, OSHA Listed): none

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

United States – State Regulations

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive defects.

15.2 Chemical safety assessment

No data available

Section 16: Other Information

Shelf life : 24 months when properly stored

The data and information herein are merely complementary, supplied in good faith, and represent the best available information, not meaning that there was a thorough investigation in any of the subjects. No guarantee is given over the result of the application of these data and information, not exempting the users from their responsibility in any step of the products usage and handling. Any disposals of official regulatory agencies are prevailing over the data presented herein.